

FIG.1 PRIOR ART

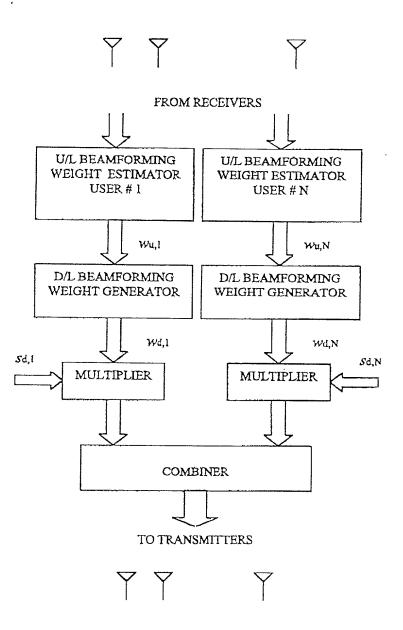


FIG. 2

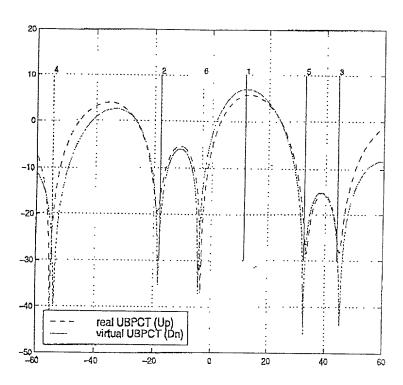


FIG.3

U/L BEAMFORMING WEIGHTS

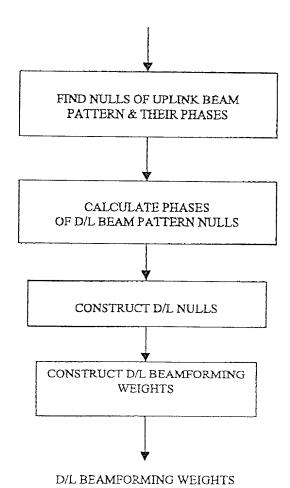


FIG.4

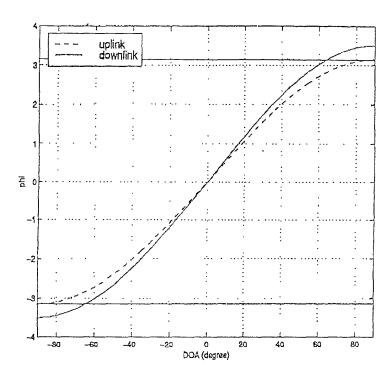
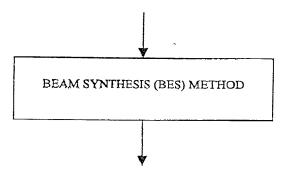


FIG.5

U/L BEAMFORMING WEIGHTS



D/L BEAMFORMING WEIGHTS

PRE-PROCESSING:
PROPER SELECTION OF ANTENNA
SPACING, AND/OR SECTORIZATION,
AND/OR CARRIER FREQUENCIES

FIND NULLS OF UPLINK BEAM PATTERN & THEIR PHASES

CALCULATE PHASES
OF D/L BEAM PATTERN NULLS

CONSTRUCT D/L NULLS

POST-PROCESSING:
NULL-MOVING METHOD

CONSTRUCT D/L WEIGHTS

D/L BEAMFORMING WEIGHTS

FIG.7

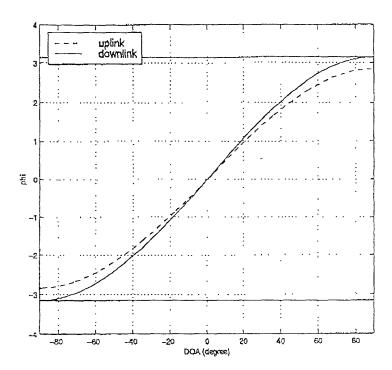


FIG.8

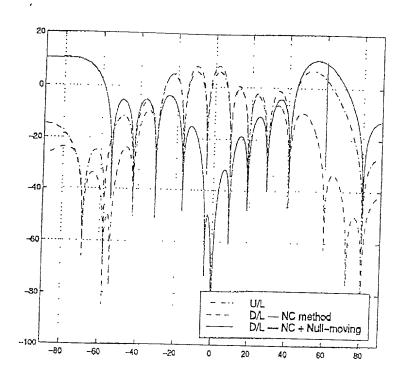


FIG.9